

Wisconsin Karner Blue Butterfly Habitat Conservation Plan
Survey Report Form
Karner Blue Butterfly Presence/Absence

Enter year of survey

Purpose

This form should be completed for sites/project areas where lupine presence/absence surveys revealed sufficient lupine to potentially support Karners (if you answered "Yes" to question 3 on the lupine presence/absence survey).

General Instructions

Report on this form results of Karner blue butterfly presence/absence surveys conducted by HCP Partners and their agents. This information will be posted on the KBB website and communicated by the HCP coordinator.

Submit a copy of your completed surveys via email to Rebecca.Roth@wisconsin.gov, or by mail to:

HCP Coordinator
101 S. Webster St.
Madison, WI 53703

Keep a copy of this completed form for your records! Contact Karner blue Habitat Conservation Plan program staff at the Wisconsin Department of Natural Resources if you have any questions, or refer to the KBB website for current monitoring protocols.

Partner & Surveyor Information

Date of survey: _____

Partner Name: _____

Landowner (if different than partner): _____

Surveyor(s) (Last name, First name): _____

Have you completed the online survey training provided by WDNR?: ☐ Yes ☐ No

If yes, what is the most recent year you took the training: _____ (certification is valid for 5 years)

Did you attend the optional field day held by HCP staff with WDNR? ☐ Yes ☐ No

Are you using this form for (check one):

- ☐ Pre-management
- ☐ Post-management
- ☐ On-going management
- ☐ Post-construction assessment
- ☐ Site assessment
- ☐ Other: _____

Site Location & Description

Complete all site identification information that applies. **Make sure that all information below is identical to corresponding Lupine Presence/Absence survey for this site:**

County: _____ Partner site code: _____

Site/Project name or Comp/stand (or other descriptive name): _____

Legal description: Township _____ Range _____ Section _____

Site size (acres): _____

****GPS Coordinates:** Lat: _____ Long: _____

**** Provide the coordinates for the approximate center of the site. If you are unable to provide GPS coordinates, please provide T-R-S information.**

Management strategy type (check one):

- ☐ Shifting mosaic (forestry / short term habitat)
- ☐ Barrens, prairie, or savanna (long term habitat)
- ☐ Right-of-way (long term habitat)
- ☐ Post-construction restoration assessment

Date of last management activity (on this site): _____ Date of last survey (on this site): _____

Site Validation

1. Provide the date of the corresponding lupine presence/absence survey for this site: _____

General Survey Information

****Dates of surveys**:** Three surveys are **required** to prove Karner absence. The first survey may be done during the first Karner blue butterfly flight period. If you find Karners on the first or second survey, you do not need to complete subsequent surveys. Both second and third surveys must be done during the second Karner blue butterfly flight period, with a 3-7 day interval between surveys. **Refer to the Emergence Model website:** <https://dnr.wi.gov/topic/ForestPlanning/karner/emergence.html> **for the approximate dates of first and second flights.**

Wind speed: Use a Kestrel wind speed monitor OR the following indicators to help you estimate wind speed:

Mph	Indication
<1	Smoke rises vertically
1-3	Wind direction shown by smoke drift
4-7	Wind felt on face, leaves rustle
8-12	Leaves and small twigs in constant motion; small branches sway
13-18	Wind raises dust and loose paper; small branches sway

Karner Blue Butterfly Survey- Information

Survey method: The two acceptable survey methods are (1): walk entire habitat area, and (2) transect method.

3. Fill in or circle the appropriate responses for each survey conducted:

	First survey	Second survey	Third survey
Date (mm/dd/yyyy)			
Start time for survey	am or pm	am or pm	am or pm
End time for survey	am or pm	am or pm	am or pm
Minutes spent on survey			
Temperature (°F)			
Cloud cover (%)			
Wind speed (mph)			
Survey method	<input type="checkbox"/> 1 <input type="checkbox"/> 2	<input type="checkbox"/> 1 <input type="checkbox"/> 2	<input type="checkbox"/> 1 <input type="checkbox"/> 2

Karner Blue Butterfly Survey- Observations

4. Circle the appropriate response for each survey conducted.

	First survey	Second survey	Third survey
Larvae feeding signs present?	Yes No Not sure	Yes No Not sure	Yes No Not sure
Ants present?	Yes No Not sure	Yes No Not sure	Yes No Not sure
Ants tending Karner larvae present?	Yes No Not sure	Yes No Not sure	Yes No Not sure
Karner adults present?	Yes No Not sure Optional: number of adults:_____	Yes No Not sure Optional: number of adults:_____	Yes No Not sure Optional: number of adults:_____

Other observations:

Nectar Plant Abundance

This section is **required** for mitigation projects, short-term habitat replacement for major construction projects, and any project requiring a Habitat Replacement Plan. These projects need nectar plant abundance for both 1st and 2nd flight periods. This section is recommended for others

5. General availability of nectar plants during **1st flight** period: ☐ Abundant - (50% or more coverage of nectar area)
(First flight periods are generally late May- June) ☐ Common - (25-50% coverage)
☐ Scarce - (<25% coverage)

6. General availability of nectar plants during **2nd flight** period: ☐ Abundant - (50% or more coverage of nectar area)
(Second flight periods are generally mid-July-mid-August) ☐ Common - (25-50% coverage)
☐ Scarce - (<25% coverage)

7. If nectar is **SCARCE (<25% coverage in lupine patch)** in either 1st or 2nd flight, map and calculate nectar area in acres within 200 meters of occupied lupine.

Nectar area outside of Karner blue occupied lupine: _____

Nectar plants <i>(fill in observed species below)</i>	1 st flight period <i>(common, scarce, or abundant)</i>	2 nd flight period <i>(common, scarce, or abundant)</i>

Site Map

14. Mapping:

NOTE: Ideally, you should complete your lupine survey and first Karner survey (if needed) in the same site visit. It would need to be during the first flight period. If Karners are observed, add those observations to a copy of your lupine map. Use the options below if you choose to complete your Karner survey for this site at a later date, or if Karners are not observed until your 2nd or 3rd KBB survey.

OPTION 1. Use a copy of the same map you used for the Lupine Presence/Absence survey.

- Hand-draw or add in using Adobe the locations where Karners were observed. You can use Adobe comment feature to add red squares or dots to the locations where Karners were observed, and the Adobe tools feature to add and change text on your map (i.e. changing the title and adding the coordinates to the legend).
- Include coordinates for each Karner observation.
- Attach map to this form.

OPTION 2. Recreate the map you used for the lupine survey.

- Use the DNR mapping application (https://dnrmapping.wi.gov/H5/?viewer=Location_Finder) and steps from the lupine survey form to recreate the site map.
- Add coordinates using the "Get lat/long" button for any Karners observed.
- Indicate what the flagged numbers represent in the "notes" section.
- Print and attach the map to this form.

Please note that we generally submit new or updated Karner blue butterfly occurrences to the Natural Heritage Inventory (NHI) at the end of each monitoring season. NHI data are exempt from the Wisconsin Open Records Law because rare species are very vulnerable to collection as well as destruction. NHI does not publish exact locations of rare species. However, the Bureau of Endangered Resources can and does share NHI data to facilitate management, protection, planning, and avoiding impacts to rare resources. Examples of groups we have shared data with are WDNR employees, local units of government, federal agencies, land trusts, and environmental consultants. If you have any questions or concerns about sharing information about Karner occurrences on your properties with NHI, please contact the HCP Program.